

CLAIMS

What is claimed is:

1. A system for uniformly dispensing a fluidic substance comprising:
 - (a) at least one multi-port manifold having an inlet and at least two exit ports disposed substantially radially of said inlet and having a planar surface disposed in one end of said inlet proximate said exit ports;
 - (b) a reservoir, for retaining said fluidic substance, in fluid communication with said inlet;
 - (c) delivery conduits, each in fluid communication with one of said at least two exit ports wherein said fluidic substance flowing into said inlet, under pressure, impinges said planar surface and is radially dispersed to provide substantially equal, divided fluid streams exiting the manifold by means of said exit ports.
2. The system of claim 1, wherein said fluidic substance is an agrichemical.
3. The system of claim 1, having two multi-port manifolds in series.
4. The system of claim 1, wherein said pressure is provided by a pump fluidly communicating with said system at a point downstream of said reservoir and upstream of said at least one multi-port manifold.
5. The system of claim 1, wherein said pressure is provided by pressurizing said reservoir.
6. The system of claim 1, wherein said at least one multi-port manifold has three, four, five, or six exit ports.
7. The system of claim 1, wherein said exit ports are disposed substantially perpendicular to the direction of said fluidic substance flowing in said inlet.

8. The system of claim 1, wherein said exit ports each have a lesser diameter than the fluid inlet.

9. The system of claim 1, wherein said exit ports have substantially equal diameter.

10. A multi-port manifold having an inlet and at least two exit ports disposed substantially radially of said inlet and having a planar surface disposed in one end of said inlet proximate said exit ports such that a fluidic substance flowing into said inlet, under pressure, impinges said planar surface and is radially dispersed to provide substantially equal, divided fluid streams exiting the manifold by means of said exit ports.

11. The manifold of claim 10, wherein said at least one multi-port manifold has three, four, five, or six exit ports.

12. The manifold of claim 10, wherein said exit ports are disposed substantially perpendicular to the direction of said fluidic substance flowing in said inlet.

13. The manifold of claim 10, wherein said exit ports have substantially equal diameter.

14. The manifold of claim 10, wherein said exit ports each have a lesser diameter than the fluid inlet.

15. A method for uniformly dispensing a fluidic substance from a plurality of delivery conduits comprising the step of:

(a) delivering a fluidic substance, under pressure, to the inlet of a at least one multi-port manifold having an inlet and at least two exit ports disposed substantially radially of said inlet and having a planar surface disposed in one end of said inlet proximate said exit ports wherein said exit ports are each in fluid communication with one of said plurality of delivery conduits.

16. The method of claim 15, wherein said fluidic substance is an agrichemical.
17. The method of claim 15, having two multi-port manifolds in series, wherein the delivery conduits emanate from the second multi-port manifold in the series.
18. The method of claim 15, wherein said pressure is provided by a pump fluidly communicating with said system at a point upstream of said at least one multi-port manifold.
19. The method of claim 15, wherein said pressure is provided by pressurizing a reservoir containing said fluidic substance in fluid communication with the inlet of said at least one multi-port manifold.
20. The method of claim 15, wherein said at least one multi-port manifold has four exit ports.
21. The method of claim 15, wherein said exit ports are disposed substantially perpendicular to the direction of said fluidic substance flowing in said inlet.
22. The method of claim 15, wherein said exit ports have substantially equal diameter.
23. The method of claim 15, wherein said exit ports each have a lesser diameter than the fluid inlet.
24. A multi-port manifold for passively, uniformly, dividing an incoming flowing fluid stream to provide separate, but substantially equal exit flow streams comprising:
 - (a) a fluid inlet comprising a conduit having an upper portion and a lower portion forming a channel therethrough and having a planar surface disposed radially at the termination of the lower portion, substantially perpendicular to the longitudinal axis of the channel;

(b) a plurality of equal diametered exit ports of lesser diameter than the inlet channel comprising a conduit having a receiving orifice on one end and adapted to fluidly communicate with a conduit on the other, deposited radially about said lower portion and in fluid communication with said fluid inlet wherein said incoming flowing fluid stream under pressure, impinges said planar surface and is radially dispersed to provide substantially equal, divided fluid streams exiting the manifold by means of said exit ports.

25. The manifold of claim 24, wherein said at least one multi-port manifold has three, four, five, or six exit ports.

26. The manifold of claim 25, wherein said exit ports are disposed substantially perpendicular to the direction of said fluidic substance flowing in said inlet.